

except the regular arrangement of the epidermal cells with square shape in longisections.

B-stage. The epidermal cells at the apices of the teeth are manifestly elongated anticlinally. This pattern remind us the young glandular epidermis which is usually seen in many taxa belonging to dicotyledons.

C-stage. The schizogenous intercellular spaces are observed among the anticlinal cell walls of the epidermis.

D-stage. The shrinkage of the cytoplasm occurs in the epidermis and several cell layers underneath it, as far as we could have observe in our permanent preparations. Among the procambial strand directed to the teeth through the mesophyll, young tracheids differentiate with the secondary cell-wall thickenings.

E-stage. Above explained cells with the shrunked protoplasm further lose their cell contents, and bring about the strong shrinkage of the tissue concerned as a whole, remaining a large 'cavity' in the place formerly occupied by them. The shrunked tissue seems as to be pressed to the bottom of the cavity. The mature tracheary bundle or bundles are reached to this tissue from inside.

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□Ch. R. Harrison: **Ornamental conifers** pp. 224. figs. 554. David & Charles, Newton Abbot, Devon (1975) ¥ 9975. 大版のページにカラーで三図ずつを排列した世界中の針葉樹の図鑑で、印刷もよいし記述も手頃である。1966年前後に出た針葉樹の著作三部、即ち Dallimore & Jackson の *A handbook of Coniferae and Ginkgoaceae* の S. G. Harrison による増訂版 (1966), Ouden & Boom の *Manual of cultivated conifers* (1965), 及び Welch の *Dwarf conifers* (1966) の欠けたところをおぎない、よいところを踏襲したものであるからその編集はすぐれている。属名のABC順に排列し、或は一種の園芸品を集め (たとえば *Chamaecyparis lawsoniana* では57品種を図示するなど) 或は珍稀な属たとえば *Callitris*, *Fokienia*, *Fitzroya*, *Neocallitropsis*, *Papuacedrus* *Tetraclinis* 等の近接写真を掲げるなど、中々に緩急の妙をえているし、学名などの論議は避けるが図をみればわかるものもあるろうと中々自信を示す。適用温度を10段階にわけて添記したこともよい。とにかく近來にない好参考書とみなすことができる。 (前川文夫)